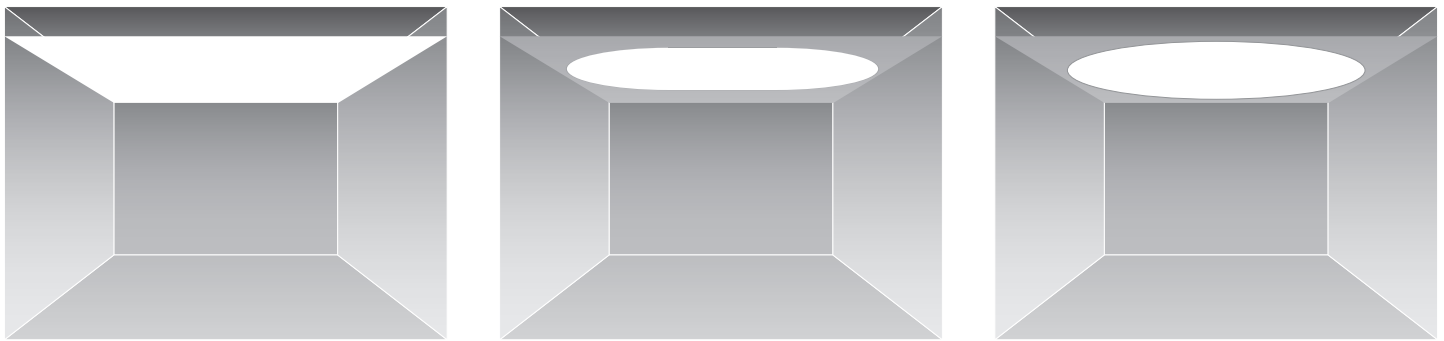


SKYSPAN FLUSH MOUNT: SPECIFICATIONS



PROJECT		REFERENCE TYPE	
SPECIFIED BY		QUANTITY/SIZE	
DATE		NOTE	Luminous Ceiling

SKYSPAN - FLUSH MOUNT STANDARD CONFIGURATION



Create luminous ceilings that deliver immersive illumination experiences from wall to wall.

GENERAL

Mounting Type	Flush Mount
Input Voltage	Nom. 120 – 277 VAC
Fabric Tensioning Profile	Flexible PVC
Light Source	Cooledge TILE Products
Diffuser Material	Woven Polyester Fabric (coated)
Dust Ply Included	Yes
Maximum Seamless Dimensions	15.5ft (4.7m) x 161ft (49m) (WxL)
Cavity Depth	Recommended: 6 in (150mm) Minimum: 4 in (100mm)

SPECIFICATION

- A luminous surface of dimensions aa x bb consisting of a lighting system, woven polyester light emitting diffuser mounted a vertical wall or ceiling cavity surfaces using a flexible profile.
- The luminous ceiling forms a single or series of uniformly diffuse and seamless light emitting surfaces; providing a minimum of xx fc (lux) on the horizontal workplane; and are installable in occupied premises, without need for heating devices or water.
- The surface material(s) is of a coated polyester fabric with a fire rating ASTM E 84 Class A /EN:3501-1 Class B.
- Light output from the luminous surface is CRI>90; provides flux within 10% of nominal and has a color consistency of 2 SDCM over the entire surface. (Single CCT & Tunable White)
- Cooledge SkySpan systems are UL Listed and/or CE Compliant.

FEATURES

- **Continuous:** Mounts directly to each wall to form a continuous luminous ceiling or fill a cavity with limitless scalability
- **No Special Site Requirements:** Woven fabric is easily stretched and held in place without need to remove equipment, or furniture, or isolate the space
- **First Time Right Install:** Field adjustability accommodates obstacles and altered site dimensions – no need for 2nd attempts
- **Immersive Illumination:** A large luminous surface delivers a surprising amount of illumination without visual discomfort
- **Adaptable:** Choice of tunable white, dim-to-warm, W+RGB or static color temperature
- **Code Friendly:** Fire-rated polyester fabric and a fully certified lighting system eliminate inspection challenges
- **Quick & Clean:** Avoid the mess caused by drywall construction and delays waiting for surface prep.

SKYSPAN FLUSH MOUNT: SPECIFICATIONS

PHOTOMETRICS (STATIC CCT & TUNABLE WHITE)

The following assumes Cooledge's standard smooth white fabric material as the primary luminous ceiling diffuser.

Distribution	Lambertian
Light Output ² (lm/sqft)	Extra High Flux (XHF) = 520 High Flux (HF) = 345 *Medium High Flux (MHF) = 270 Medium Flux (MF) = 175 *Low Medium Flux (LMF) = 130 Low Flux (LF) = 85 *Eco Power (ECO) = 60
*Available in 3000K, 3500K, 4000K, and Tunable White 2700K-5700K only	
Light Output ² (lm/m ²)	Extra High Flux (XHF) = 5580 High Flux (HF) = 3710 *Medium High Flux (MHF) = 2900 Medium Flux (MF) = 1860 *Low Medium Flux (LMF) = 1400 Low Flux (LF) = 930 *Eco Power (ECO) = 640
*Available in 3000K, 3500K, 4000K, and Tunable White 2700K-5700K only	
Correlated Color Temperature (CCT)	Single CCT: 2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Tunable White 2700K-5700K Dim-to-Warm 3500K-2200K
Color Rendering Index (CRI)	≥ 90
Color Uniformity	2 SDCM (typical)
Lumen Maintenance ³	L80 = 75,000 hr

¹ Photometric files available from cooledgelighting.com

² Based on a 10'x10' (3mx3m) area

³ Based on LM80 data & TM-21 calculations

Cooledge has conducted extensive testing on the interaction between the light source and the surface materials to deliver the optical and photometric properties of the SkySpan/SkyLine system.

TM-30-15 DATA

CCT	2200K	2700K	3000K	3500K	4000K	5700K	TNW*
Rf	88	91	90	89	86	88	90
Rg	99	99	98	98	96	98	100

For more details about Cooledge Solutions color rendering, please see "Light Quality Metrics" at www.cooledgelighting.com

* = Tunable White @50% point in the tunable range 2700K - 5700K

PHOTOMETRICS (W+RGB)

	lm/sqft*	lm/m ² *
W (3500K)	280	3000
Full W+RGB	560	6030
Red only	85	920
Green only	225	2400
Blue only	50	540

*Approximate: actual flux values may vary depending on the size and shape of the Specialty Illumination Solution.

WHITE - W+RGB: OTHER CCTS*

Nominal CCT	Calculated CCT	CRI	R9
2700K	2752K	80	51
3000K	3080K	90	79
3500K	3465K	95	95
4000K	3985K	95	97
5000K	5031K	93	96
5700K	5640K	91	88

WHITE - 3500K

Correlated Color Temperature (CCT)	3500K
CRI (Ra) - White	94
R9	64
Color Unigormity - White (Typical)	3 SDCM
Lumen Maintenance (L70)	50,000 hr

SKYSPAN FLUSH MOUNT: SPECIFICATIONS

POWER (SINGLE CCT & TUNABLE WHITE)

Flux Category	Light Output (lm/sqft)	Light Output (lm/m ²)	CCT	Power (W/sqft)	Power (W/m ²)
Extra High Flux (XHF)	520	5580	2200K	n/a	n/a
			2700K	7.8	83.4
			3000K	7.1	76.2
			3500K	7.0	75.0
			4000K	7.0	75.0
			5700K	7.0	75.0
High Flux (HF)	345	3710	2200K	5.6	60.4
			2700K	5.2	55.6
			3000K	4.8	52.0
			3500K	4.6	49.6
			4000K	4.6	49.6
			5700K	4.7	50.8
Medium High Flux (MHF)	305	3280	2700K	4.0	43.4
			3000K	3.7	40.0
			3500K	3.6	38.4
			4000K	3.6	38.4
Medium Flux (MF)	175	1860	2200K	2.8	30.2
			2700K	2.6	27.8
			3000K	2.5	26.6
			3500K	2.2	24.2
			4000K	2.4	25.4
			5700K	2.2	24.2
Low Medium Flux (LMF)	150	1620	2700K	2.0	21.0
			3000K	1.8	19.4
			3500K	1.7	18.6
			4000K	1.7	18.6
Low Flux (LF)	85	940	2200K	1.3	14.5
			2700K	1.2	13.3
			3000K	1.2	13.3
			3500K	1.1	12.1
			4000K	1.1	12.1
			5700K	1.1	12.1
Eco Power (ECO)	60	640	2700K	0.9	9.3
			3000K	0.8	8.6
			3500K	0.8	8.2
			4000K	0.8	8.2

Note: for Tunable White use 2700K power value; for Dim-to-Warm use 3500K value

POWER (W+RGB)

	W/sqft	W/m ²
W (3500K)	5.8	62
Full W+RGB	22.5	242
Red only	5.8	62
Green only	5.8	62
Blue only	5.8	62

CERTIFICATIONS



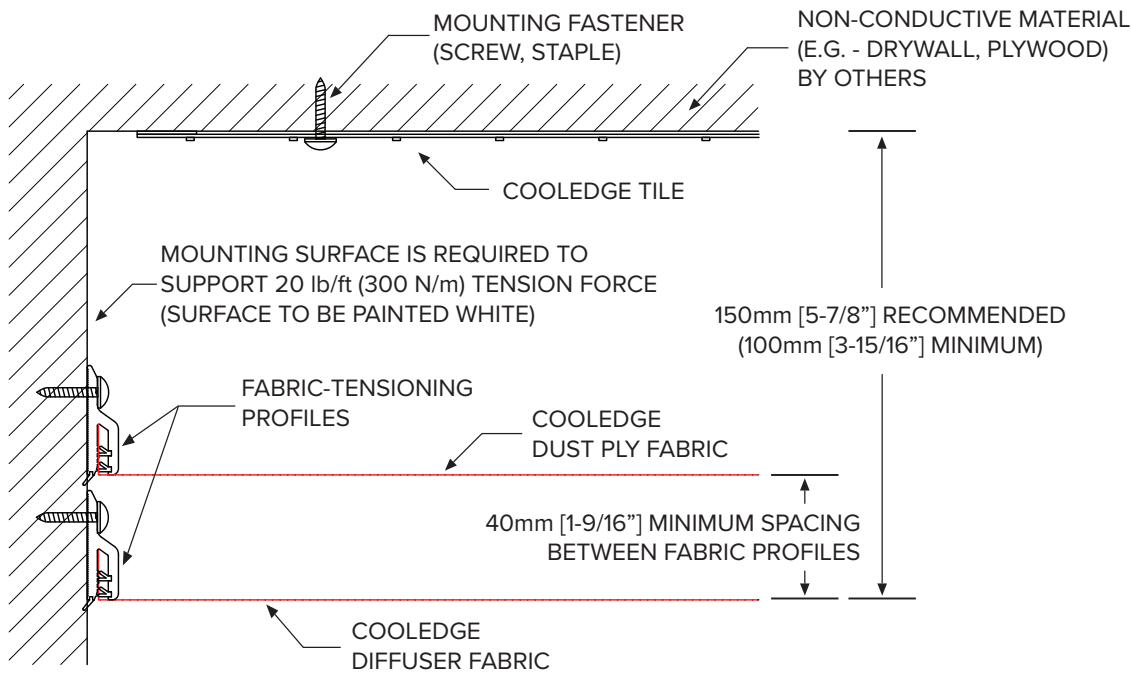
RoHS

WARRANTY

Refer to Coolege Terms and Conditions for full warranty details.

SKYSPAN FLUSH MOUNT: SPECIFICATIONS

MECHANICAL DETAILS



Cooledge Skyspan systems include the illumination source, profile, diffuser fabric, and installation of all non-electrical components

GENERAL

Location	Indoor, dry location only
Operating Temp. Range	0-40°C (32-104°F)
Storage Temp. Range	-40-85°C (-40-185°F)
Relative Humidity	90% max (non-condensing)
Fire Spread	ASTM E84: Class A (FSI = 0–25); EN13501-1: Class B – s1,d0;

SKYSPAN FLUSH MOUNT: SPECIFICATIONS

COMPLEX SHAPES

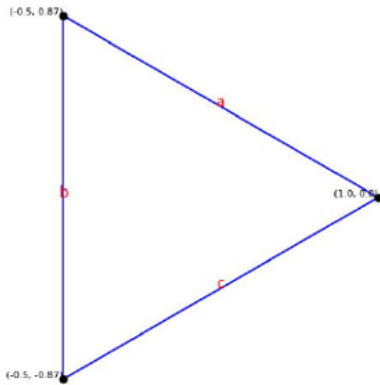
Cooledge SkySpan systems are generally configured in simple geometric shapes such as squares, rectangles, and circles. However, many other forms are possible – especially with Flush Mount systems. Symmetrical and non-symmetrical polygons as well as curved shapes including but not restricted to ovals are all possible.



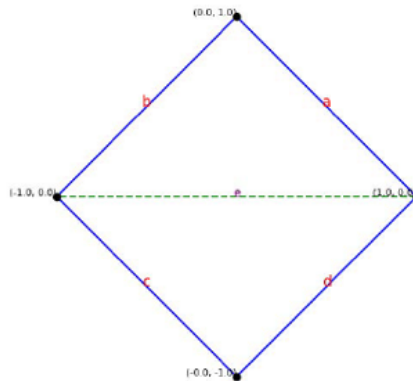
Cooledge will work with you to define the required dimensions for inclusion in your design and to guide related construction details. Below are examples of symmetrical polygons and the dimensions required to correctly define them.

REQUIRED DIMENSIONS FOR POLYGONS

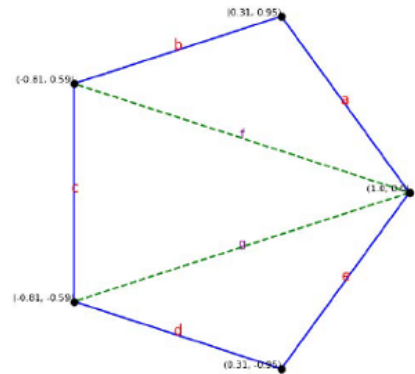
3-sided Polygon with Minimal Diagonals



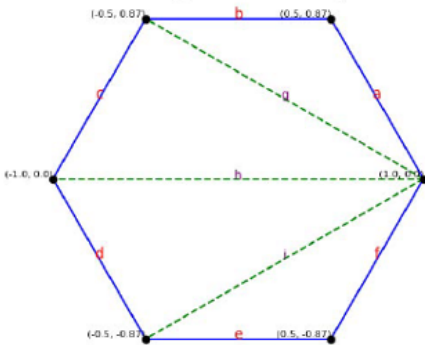
4-sided Polygon with Minimal Diagonals



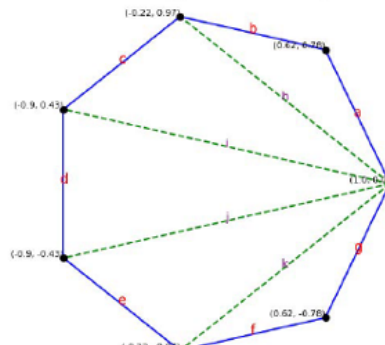
5-sided Polygon with Minimal Diagonals



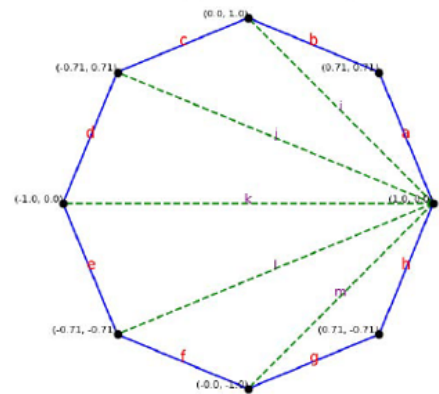
6-sided Polygon with Minimal Diagonals



7-sided Polygon with Minimal Diagonals



8-sided Polygon with Minimal Diagonals

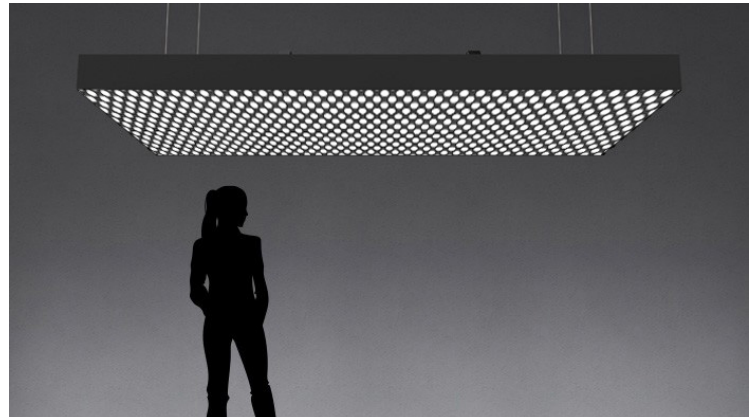


SKYSPAN FLUSH MOUNT: SPECIFICATIONS

FAUX PERFORATED METAL (PRINTED)

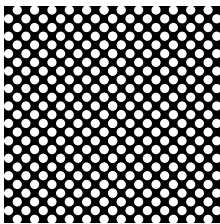
Make your design unique by adding the look of illuminated perforated metal panels to your SkySpan or SkyLine systems luminaires using images printed right on the diffuser fabric.

Combine exceptional quality illumination, true acoustic performance, and visual interest in one simple luminaire solution.

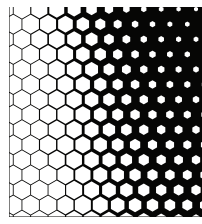


STANDARD PATTERNS

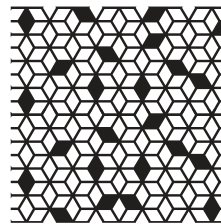
The following are standard patterns available from Coolege. We are also able to work with other images that you have selected.



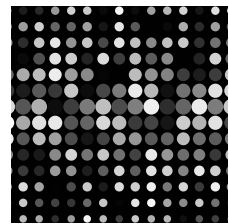
PATTERN A



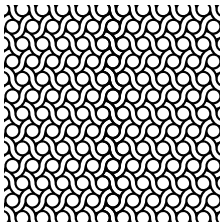
PATTERN B



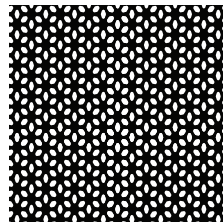
PATTERN C



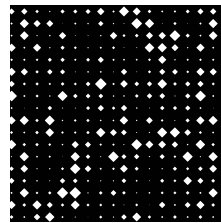
PATTERN D



PATTERN E



PATTERN F



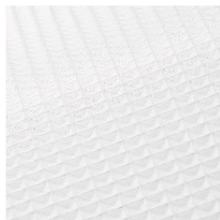
PATTERN G



PATTERN H

DIFFUSER OPTIONS – DESIGNER SERIES FOR LUMINOUS CEILINGS

In addition to our standard smooth white fabric diffuser, Coolege offers options to change aesthetic appeal of its luminous ceiling product by introducing the Designer Series of fabric diffusers. These fabrics add an element of texture to your design and elevates the luminous ceiling from the appearance of a traditional light fixture to a unique architectural element.



WAFFLE
CONTOURS

Add some sparkle and depth with this fabric option that allows a hint of the LEDs to shine through a waffle pattern structured surface



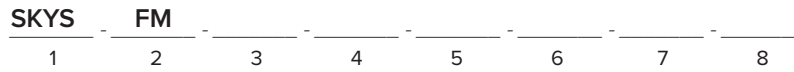
TEXTURED

The fabric (cotton) weave pattern adds a subtle texture to the appearance of the fabric without impacting the light transmission performance.

SKYSPAN FLUSH MOUNT: SPECIFICATIONS

HOW TO SPECIFY

NOTE: By their nature, Cooledge SkySpan and SkyLine are custom products. These Specification Codes are provided for use as simple references to SkySpan/SkyLine in specifications and/or construction documents and do not include all details required to define the system. Specification Codes are NOT ordering codes. In order to receive quotations or purchase these products from Cooledge, the dimensions and are required. Cooledge may also request additional information before issuing a quotation or accepting a purchase order.



1	2	3	4	5	6	7	8
PRODUCT SKYS = SkySpan	MOUNTING SU = Suspended SM = Surface Mount FM = Flush Mount	SHAPE REC = Rectangle CIR = Circle CUR = Curve POLY = Polygon	FLUX XHF = Extra High Flux HF = High Flux MHF = Med High Flux LF = Low Flux LMF = Low Medium Flux ECO=Low Power	CCT 22 = 2200K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 57 = 5700K TNW2757 = Tunable White 2700-5700K TNW2235 = Tunable White 2200-3500K DTW3522 = Dim-To-Warm 3500-2200K	CONTROL 010 = 0-10V DAL = DALI DMX = DMX CAS = Casambi (Wireless) ATH = Athena (Wireless)	DIFFUSER STD = Smooth White TXT = Textured White WAF = Waffle Contour White FPRF-x = Faux Perforated Metal – Pattern x (printed) GRPH = Custom Graphic Image (printed)	CERTIFICATION U = cUL C = CE

INSTALLATION

Installation of Cooledge SkySpan and SkyLine products is included in the purchase of the product. Installation of these products must be done by a Cooledge approved installer.